OFF-SITE MONITORING WELL DESTRUCTION REPORT

FORMER BP SITE #11146 1096 OAK GROVE ROAD CONCORD, CALIFORNIA

Prepared for RM

February 10, 2006



URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612-1924

URS

February 10, 2006

Mr. George Leyva California Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, CA 94612

Re: Off-Site Monitoring Well Destruction Report

Former BP Service Station #11146

1096 Oak Grove Road, Concord, California RWQCB File No: 07-0203

Dear Mr. Leyva:

On behalf of the Remediation Management (RM – a BP affiliated company), URS Corporation (URS) is submitting this *Off-Site Monitoring Well Destruction Report* for the former BP service station located at 1096 Oak Grove Road, in Concord, California (the Site). The scope of work for the Site included the destruction of one recovery well (RW-1) and four monitoring wells (AW-5 through AW-8). Wells MW-1 through MW-4, RW-2 and RW-3 were previously destroyed and described in a report titled *On-Site Monitoring Well Destruction Report* (dated March 29, 2005). The locations of the recovery and monitoring wells are shown in Figure 1.

Prior to initiating field activities, URS obtained well destruction permits from the Contra Costa County Environmental Health Division (CCCEHD), created a site-specific Health and Safety Plan (HASP) describing hazards associated with the proposed work, and conducted a subsurface utility clearance. The utility clearance included notifying Underground Service Alert (USA) of the pending work a minimum of 48 hours prior to initiating the field investigation, and securing the services of a private utility locating company to confirm the absence of underground utilities at each well location. Copies of the well abandonment permits are included in Appendix A.

Two of the five wells (AW-6, AW-7) were over-drilled using a hollow-stem auger drill rig to the total depth of the well casings. The boreholes were then backfilled with neat cement grout using a tremie pipe. The remaining three off-site wells (AW-5, AW-8, & RW-1) were pressure grouted following the approval of a variance from the CCCEHD. At all of the well locations, the well box was removed and the ground surface was restored in kind. All of the well destructions were performed under the consent and approval of the CCCEHD. Copies of Monitoring Well logs and Well Completion Report submitted to the Department of Water Resources (DWR) are included in Appendix B. Details of the field activities are presented on the following page.



Mr. George Leyva February 10, 2006 Page 2 of 3

Personnel Present:

October 10 & 11, 2005: URS Geologists Andrew Fowler & Scott

Robinson.

October 31, 2005: URS Geologists Andrew Fowler, Shannon Couch,

Donna Cosper (E.I.T.).

January 26, 2006: URS Geologists Kirk Martin & Lynelle Onishi. Personnel working under the supervision of Donna Cosper, project

manager.

Permits: CCCEHD Permit numbers: WP0003908 (RW-1), WP00004890 (AW-5).

WP00004891 (AW-6), WP00004892 (AW-7), WP00004893 (AW-8).

Drilling Companies:

Gregg Drilling of Martinez, California (C-57 License # 485165) (October

10/11, 2005 & January 26, 2006).

Woodward Drilling (C-57 License #710079) (October 31, 2005).

Drilling Dates:

October 10, 11, & 31, 2005. January 26, 2006.

Number of Wells:

Five: AW-5 through AW-8, and RW-1.

Well Depths:

20 feet bgs (AW-5, AW-6, AW-7, AW-8); 28 feet bgs (RW-1).

Method of Destruction:

Drill rig equipped with hollow-stem augers was used to over-drill wells AW-6 & AW-7. The boreholes were backfilled with neat cement grout.

Wells AW-5, AW-8, and RW-1 were pressure grouted.

Soil and Water Handling:

Soil cuttings produced during drilling activities were drummed in five DOT

17H 55-gallon drums. Waste was characterized by Sequoia Analytical

Laboratories and will be removed by Dillard Environmental.



Mr. George Leyva February 10, 2006 Page 3 of 3

We trust this document meets with your approval. Please do not hesitate to contact us at (510) 893-3600 with any questions or comments.

Sincerely,

URS CORPORATION

Kirk S. Martin

Geologist

John McCain, P.G.

No. 8020

Geologist

Enclosures: Figure 1: Site Map

Appendix A: Completed Well Abandonment Permits- Contra Costa County Environmental

Health Services

Appendix B: Well Completion Reports and Well Logs

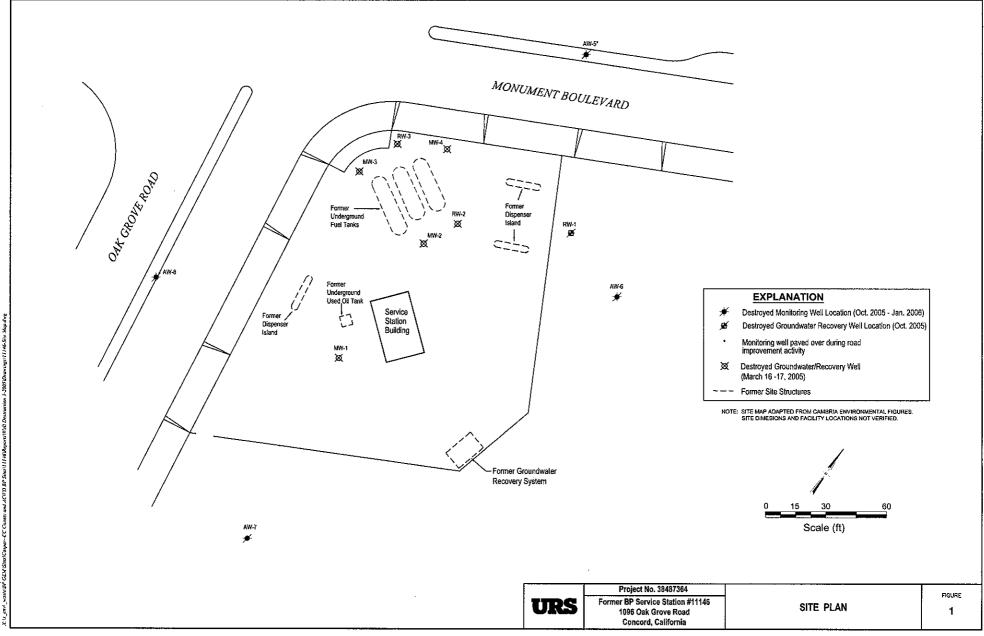
cc: Mr. Chuck Carmel, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

Ms. Susan Loyd, Contra Costa County Health Services Division, 4333 Pacheco Boulevard,

Martinez, CA 94533

Shelby Lathrop, ConocoPhillips, electronic copy uploaded to URS ftp server

Figure 1 Site Plan



Feb 09, 2006 - 4:32um

Appendix A Contra Costa County Completed Well Abandonment Permits



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

PR Number: 22135	PE Number: 4368						
Date Received: 28 FEB 05	Permit Number: 05M-1212						
Permit Approved/Issued by:	Date Issued: 10/2-8/0/						
	5multonmental Health Specialist						
NEW WELL () SOIL BORIN	GS REPAIR REPAIR						
indefinite operation of any well. Permit expires in 180 ca	vironmental Health Division does not guarantee a satisfactory and an lendar days from date of approval. Permits are non-transferable, and for the project, a time extension may be granted if reasons warrant it						
PROJECT S	SITE INFORMATION						
Site Address: (2050 MONUMENT BLVD) 109	6 OAK GROVE RD, CONCORD						
APN: 129-170-021	Lot/Parcel #:						
Subdivision #:	Miner Subdivision #:						
DRILLER / CO	SULTANT INFORMATION						
Driller: WOODWARD DRILLING	Contact Person:						
Phone #: 707-374-4300	FAX#: 707-374-4300						
Consultant: URS	Contact Person: ANDREW FOWLER						
Phone #: 510-893-3600	FAX#: 510-874-3268						
LEGAL OW	NER INFORMATION						
Legal Owner Name: CONOCOPHILLIPS / Li2	2 SEWELL						
Owner Address: 76 BROADWAY							
City/State/Zip: SACRAMENTO, CA 95818							
Phone #: 916-558-7604	Alternate Phone #:						
prior to any drilling construction or destruction of a well. V confirmation via telephone or fax. Well drillers must posses a valid C-57 license and must have commencing with any well construction, destruction or repair Well Permit Conditions: 1. Proper annular seals and surface construction features of commencing drilling.	are to be installed and required water analyses completed within 30 days of County regulations within 30 days of completing monitoring activities.						
Final Approval by:	Date:						



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocbeh.org



Well Permit

•	PR	Number:	: 2386 1		PE Number:	4368
	Dat	e Receiv	ed: 18 OCT 05	_	Permit Number:	05M-1774
Permit	Approved/Issue	d bv:				Date Issued: 10/28/05
				ntal Health Speci		
	NEW W	ELL	() SOIL BORINGS	WE E	BANDONIMENT AVE	REPAIR
indefinite operat	ion of any well.	Permit	expires in 180 cale	endar days	from date of appro	es not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant it
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	Site Address:	1096	OAK GROVE RD, CO	ONCORD		
•	APN:		170-021		Lot/Parcel #:	
	Subdivision #:				Minor Subdivision	ı#:
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	Driller:	WOOD	WARD DRILLING		Contact Person:	
	Phone #:	707-37	4-4300		FAX#:	707-374-5677
	Consultant:	URS C	ORP		Contact Person:	ANDREW FOWLER
	Phone #:	510-89	3-3600	"	FAX#:	510-874-3268
			LEGAL OW	NER IN	FORMATION	
	Legal Owner N	ame:	CONOCO PHILLIPS/	SHELBY LA	THROP	
	Owner Address	ß:	76 BROADWAY			,
	City/State/Zip:		SACRAMENTO, CA	95818		
•	Phone #:		916-558-7604		Alternate Phone #	:
prior to any drillin confirmation via to Well drillers must commencing with WELL PERMIT COI	ng construction of elephone or fax. posses a valid (any well constru NDITIONS;	or destru 0-57 lice uction, d	action of a well. Volume and must have estruction or repairs	ice mail m on file a pei	essages are not a formance bond of \$	in a confirmed appointment time and date cceptable. The appointment desk sends 5,000.00 with Contra Costa County before

- Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days
 of commencing drilling.
- 2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

Fin	al Approv	al by:	 		, 	Date:						
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2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

	PR I	Number:	23861		PE Number:	4368			
	Date	Received:	2 AUG 05	$\overline{}$	Permit Number:	05M-1774			
Permit A	Approved/issued	i by:	1	<u> </u>		Date Issued: 8/6/07			
				Heath Special:	<u> </u>				
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indefinite operation	on of any well.	Permit exp	ires in 180 calend	lar days fi	om date of appro-	es not guarantee a satisfactory and an val. Permits are non-transferable, and n may be granted if reasons warrant it			
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	Subdivision #:			•	Minor Subdivision	#:			
		DRI	LLER / CONSL	JLTANT	NFORMATION				
	Driller:	GREGG DE	ILLING & TESTING		Contact Person:				
	Phone #:	925-313-58			FAX#:	925-313-0302			
	Consultant:	URS CORP			Contact Person:				
	Phone #:	510-893-36			FAX#:	510-874-3268			
<u></u>	· · · · · · · · · · · · · · · · · · ·	· L	EGAL OWNE	RINF	ORMATION				
	Legal Owner No	ame: COI	IOCO PHILLIPS/LIZ	SEWELL					
	Owner Address	s: 76 E	ROADWAY						
	City/State/Zip:	SAC	RAMENTO, CA 958	18					
	Phone #:	916	558-7604		Alternate Phone #:				
prior to any drilling confirmation via te Well drillers must promise commencing with: WELL PERMIT CON 1. Proper annula of commencing	g construction of lephone or fax. posses a valid Cany well constructions: ar seals and suring drilling.	or destruction -57 license action, destr face constr all be destro	n of a well. Voice and must have on uction or repairs. uction features are yed pursuant to Co	mail me file a perfo to be inst	ssages are not ac armance bond of \$5 alled and required validations within 30 day	n a confirmed appointment time and date ceptable. The appointment desk sends ,000.00 with Contra Costa County before water analyses completed within 30 days as of completing monitoring activities.			
Final Approval by:				Date					



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

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	PR	Number:	23862		PE Number:	4368				
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indefinite opera	tion of any well.	Permit ex	kpires in 180 calen	dar days f	rom date of appro	nes not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant it				
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	Subdivision #:				Minor Subdivision	ı #:				
		DI	RILLER / CONS	ULTANT	INFORMATION	V.				
	Drl(ler:	GREGG I	 DRILLING & TESTING	3	Contact Person:					
	Phone #:	925-313-5		•	FAX#: 925-313-0302					
	Consultant:		REPORATION		Contact Person:					
	Phone #:	510-893-3			FAX#:	510-874-3268				
				 						
			LEGAL OWN		ORMATION					
	Legal Owner N		ONOCO PHILLIPS/LI	Z SEWELL						
	Owner Address		BROADWAY							
	City/State/Zip:		AGRAMENTO, CA 95	818						
N	Phone #:	91	6 558-7604		Alternate Phone #	<u> </u>				
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Final Approval by	!			Date						



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

			WP.	0004892		
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indefinite operation	of any well.	Permit exp	ires in 180 calent	dar days fi	rom date of appro	es not guarantee a satisfactory and an val. Permits are non-transferable, and n may be granted if reasons warrant it
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Al	PN:	129-170-	017		Lot/Parcel #:	
Sı	ubdivision #:				Minor Subdivision	#:
		DRI	LLER / CONSI	JLTANT	INFORMATION	l
Þi	riller:	GREGG DR	ILLING & TESTING)	Contact Person:	
Pi	none#:	925-313-58	00		FAX#:	925-313-0302
C	onsultant:	URS CORP	ORATION		Contact Person:	
PI	none #:	510-893-36	00		FAX#:	510-874-3268
		L	EGAL OWNE	ER INF	ORMATION	
Le	agal Owner Na	me: CO	OCO PHILLIPS/LIZ	SEWELL		
Q	wner Address	: 76 B	ROADWAY			
C	ity/State/Zip:	SAC	RAMENTO, CA 958	318		
PI	hone #:	916	558-7604		Alternate Phone #:	
prior to any drilling c confirmation via telep Well drillers must pos commencing with any WELL PERMIT CONDIT 1. Proper annular s of commencing of 2. Monitoring well/s	onstruction o whone or fax. sees a valid C y well constru nons: seals and sur drilling.	r destruction -57 license ction, destruction face construction	n of a well. Voice and must have on uction or repairs. uction features are yed pursuant to Co	s mall mes flie a perfo to be instr ounty regul	rmance bond of \$5 alled and required validness within 30 day	n a confirmed appointment time and date ceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days ys of completing monitoring activities.
Final Approval by:					·	



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



Well Permit

,	PRI	Number:	23864		PE Number:	4368					
	Date	⊋ Received:	18 OCT 05	-	Permit Number:	05M-1777					
Permit	Approved/Issued	d by:	Est Comment	<u></u>		Date Issued: 10/25/07					
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	NEW WE	LL	() SOIL BORINGS			REPAIR					
indefinite operati	ion of any well.	Permit exp	ires in 180 cale	ndar day	s from date of appro	es not guarantee a satisfactory and an val. Permits are non-transferable, and n may be granted if reasons warrant it					
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	Site Address:	1096 OA	K GROVE RD, CO	NCORD							
	APN:	12 9 -170-	021		Lot/Parcel #:						
	Subdivision #:				Minor Subdivision	#:					
	(«I	DR	LLER / CONS	SULTAN	TINFORMATION	1					
	Driller:	WOODWAI	RD DRILLING		Contact Person:						
	Phone #:	707-374-43	00	•	FAX#:	707-374-5677					
	Consultant:	URS CORP	•		Contact Person:	ANDREW FOWLER					
	Phone #:	510-893-36	00		FAX#: 510-874-3268						
		L	EGAL OWN	ER IN	FORMATION	Mild Mild Mild					
	Legal Owner Na	ame: COI	IOCO PHILLIPS/S	SHELBY LA	ATHROP						
	Owner Address	:: 76 E	ROADWAY								
	City/State/Zip:	SAC	RAMENTO, CA 9	5818							
	Phone #:	916	558-7604		Alternate Phone #:						
prior to any drillin confirmation via te Well drillers must commencing with WELL PERMIT CON 1. Proper annula of commencing we Monitoring we	g construction o elephone or fax. posses a valid C any well constru- IDITIONS: ar seals and sur- ng drilling. ell/soil boring sha	r destruction -57 license ction, destruction, destruction destruc	n of a well. Vol and must have o action or repairs. action features as yed pursuant to 0	ce mail non file a per re to be in	ressages are not ac reformance bond of \$5 stalled and required guiations within 30 da	n a confirmed appointment time and date ceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days as of completing monitoring activities.					
Final Approval by:					te:						



Final Approval by:

CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org

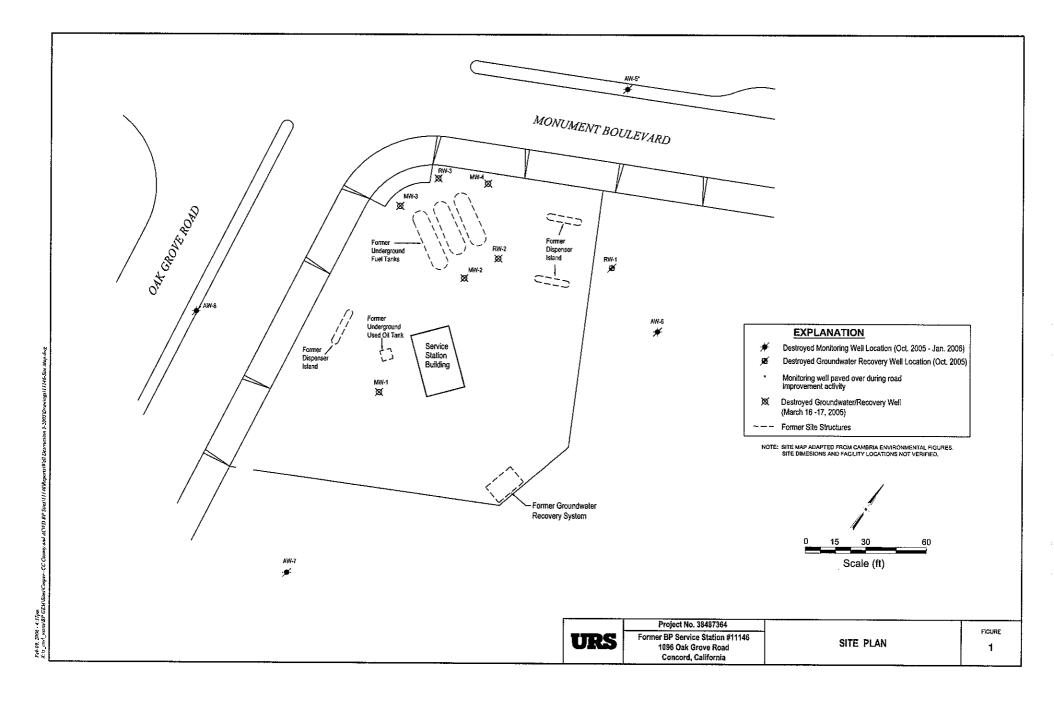


Well Permit

WP0004893 4368 23864 PE Number: PR Number: 05M-1777 2 AUG 05 Permit Number: Date Issued: #16/6 Date Received: Permit Approved/lesued by: _ Environmental Hookh Specialist () SOIL BORINGS WELL ABANDONMENT (AW-8) REPAIR **NEW WELL** The Issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it In writing. PROJECT SITE INFORMATION 1096 OAK GROVE RD. CONCORD Site Address: Lot/Parcel #: 129-170-017 APN: Minor Subdivision #: Subdivision #: **DRILLER / CONSULTANT INFORMATION** GREGG DRILLING & TESTING Contact Person: Driller: FAX#: 925-313-5800 925-313-0302 Phone #: URS CORPORATION Contact Person: Consultant: 510-893-3600 FAX#: 510-874-3268 Phone #: LEGAL OWNER INFORMATION Legal Owner Name: CONOCO PHILLIPS/LIZ SEWELL Owner Address: 76 BROADWAY City/State/Zip: SACRAMENTO, CA 95818 Phone #: 916-558-7604 Alternate Phone #: Contact the Contra Costa County Environmental Health Division appointment desk and obtain a confirmed appointment time and date prior to any drilling construction or destruction of a well. Voice mail messages are not acceptable. The appointment desk sends confirmation via telephone or fax. Well drillers must posses a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs. WELL PERMIT CONDITIONS: 1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days of commencing drilling. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

Date: __

Appendix B Well Completion Reports and Well Logs



*The free	Adobe Re	ader m	ay be	used to view	and complete	e this form.	However,	software mu	ust be purcha-	sed to compl	ete, save,	and reuse	a saved	form.	
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Other Signed								Oll Contractor			2/8/200 Date Sig		85165 -57 Lic	ense Number	

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			SI	EE FIO	BORING LOC GURE 2 LEVATION					DRILLING METH SAMPLER TYPE CASING DATA DRILLER W	Page 1 of 1		
BLOWS PER 1/2 FOOT (IN)	(маа) он	трн-с (ррм)	SAMPLE	оертн (гт)	Well Construction		nscs	PROFILE	D	EPTH TO WATER ATE IME	17.00' 10/30/91 9:07 AM DESCRIPT	13.32' 11/07/91 5:00 PM	
7,12, 12 9,11, 15 5,9,11 8,15, 21 6,12, 15 5,6,8 7,10, 10 4,7,7	0 15 30 375 25	ND 2.2 5.1 210 2.6		- 0 - 2 - 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30	4" dia. Sch. 40 PVC Casing 4" dia. Sch. 40 PVC 0.020" slotting		CL		Z	CLAY: dark browsity CLAY: dark SAME: increasi sity CLAY: dark CLAY: dark brows SAME: moist sitty CLAY: dark CLAY plug in au No recovery	c brown, damp; organic wn, damp, very stiff; sli c brownish-gray, damp, ng sand, moist c brownish-gray, damp, wnish-gray, damp, han c brown, wet, stiff	ight silt , very stiff; some , very stiff d; slight silt ery stiff; some ar	ngular sand
										BOREHOLE TE	RMINATED AT 30 FE	ET BELOW GRA	ADE

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*The free	Adobe Re	ader ma	ay be	e used to view	and complete	e this form.	However,	software mu	ist be purchas	sed to compt	ete, save,	and reuse	a saved	form.			
File Origi	nal with (OWR											/R Use O	R Use Only – Do Not Fill In			
	·					٧V	ell Co	mpletion to Instruction	on Repo	ort			14 f - 31 ft 1s				
Owner's	Well Nun	nber 💆	\W-5	5			No.	. e036000				Stat	e Well Na	mberrs	ite Number		
				06		Work En				- 1		Latitude			Longitude		
	rmit Ager umber <u>0</u> 9			Costa Coun		<u>nental He</u> ate <u>10/28</u>		on (CCCE)	HU)	<u>[</u>			APN/	TRS/Ot	her		
1	WI. 100	/1×1		Geolo	gic Log	<u></u>	,,,,,		1 [Well	Owner				
Orio	entation	⊙ ∨∈	ertica		izontal	OAngle	Specif	fy	Name Conoco Phyllips/Liz Sewell								
	Method					_ Drilling F	luid		11	Address 7					<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
Depth Feet	from Su			Desc	Des cribe material	scription I, grain size.	color, etc		11 -	cramento			Sta	ate CA	Zip 95818		
0	20		Pre	essure grou								Well L	ocatio				
			геф	urements fo	ollowing ap	proval of	a varian	ce	Address	1096 Oa	k Grove I	Road					
			req	uest.					City <u>Co</u>	ncord			Co	unty <u>C</u>	Contra Costa		
									Latitude	Deg.		Sec.	N Longit	ude	Deg. Min. Sec.		
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										ok 129		7			el <u>017</u>		
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ļ							-		1		ion Ske				Activity		
									(Sketch	must be drawr	by hand af North	ter form is p	rinted.)		lew Well		
]		NOTE				lodification/Repair Deepen		
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ļ									110	A LL	1 0	Q/ ,	_	(O)	estroy Describe procedures and materials Inder "GEOLOGIC LOG"		
<u> </u>				 					2e	e Atta	ched	761)	<u>u</u>	Planned Uses		
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\vdash				· · · · · · · · · · · · · · · · · · ·					West				East		Irrigation Industrial		
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		,	<u> </u>						41		u.				est Well		
<u> </u>									likustrate or d		South of well from rea	ads. buildings.	ferices.	Ōν	apor Extraction		
<u> </u>	-		ļ						rivers, etc. an Please be ac	escribe distance d attach a map. curate and com	Use additional plete.	paper if nece	ssary.	00	ther		
<u> </u>		·—							Water L	evel and	Yield o	f Comp	leted V	Vell			
										first water	-			(Fee	et below surface)		
									Depth to Water L			(Feet) Date	Measu	ıred		
Total D	epth of B	oring		20			Feet		Estimate	ed Yield *_			n) Test				
Total D	epth of C	omple	ted \	well 20			 Feet		Test Ler				rs) Total				
									*May no	t be repres	entative	of a well					
Depti	ı from	Boreh	ole			ings	Wall	Outside	Screen	Slot Size	Denti	h from	Annul	ar Ma	terial		
Sur	face	Diame	eter	Туре	Mate	riai .	Thickness	Diameter (Inches)	Туре	if Any	Sur	face	Fi	1	Description		
Feet to Feet (Inches)										(Inches)	Feet 1	to Feet			<u> </u>		
10	20			Screen	PVC Sch. 4			2		0.020	····						
ļ					 	\longrightarrow											
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 	Geologic	Attac	:hm	ents		L the un	dersigned	certify the		certificati			the hee	of my	knowledge and belief		
	Geologic Well Con	Loy structio	on D	iagram	!	Name _	Kirk Martin f	for Greaa Dr	illing & Testin	g g	t and av	Curate to	the nee	LUriny	Knowledge and pelici		
	Geophysi	ical Lo	g(s)			95	Person F	im or Corpor	ation	, Martir	nez		С	A	94553		
		r Chei	mica	ll Analyses		Signed	1	Attaless	7		City		St	ate	Zìp		
1	Other itional inform	nation, if	it exis	ats.		J Oigilou -	C-57 Lice	ensed Water 6	iell Contractor	\geq		2/8/200 Date Sig		85165 -57 Lic	ense Number		

			·						T								
1	3 O	F		SCIEN	•	c.			CLIENT	MOBIL OIL CORPORATION MONUMENT AND OAK GROVE, CONCORD	BORING NO.						
						44	/89	1		D BY W. SHIPP APPROVED BY	AW-5						
FIFI D	SKE	TC	HOF	BORING	LOCATI	ON			LOGGEL	APPROVED BY	711-0						
			W-5.					•									
OAK GROVE	· [·	MO	NUMEN	T BL	.VD.	•		METHOD CME 55, HSA HOLE DIA	M. <u>8.5"</u>						
RD.			<	\bigcirc					1	R TYPE SPLIT SPOON							
TOP OF CASING ELEVATION 44,75'									CASING DATA 2" Sch. 40 PVC; 10' solid, 10' perf								
101 0							-		DHILLEH	SOILS EXPLORATION							
e Ž									ATER LEVEL	: 15.63 FEET BELOW GRADE							
OWS PE OT(N) I(PPM) MPLE DEPTH STRUCT STRUCT STRUCT STRUCT STRUCT STRUCT								D/	ATE: 7/30/9	90							
BLOWS PER FOOT(N) CGI (PPM) SAMPLE DEPTH WELL CONSTRUCTIC CONSTR								TI	ME								
" " \$ \cdot										DESCRIPTION							
	- 0 Christy Box								Acabalt avac	road base							
			-			ĺ		<u></u>	Asphalt over	Toau base	· · · · · · · · · · · · · · · · · · ·						
			-2 -	2" sch.		CL		s	ILTY CLAY:	: brown, moist, firm							
12, 6, 9			-6	40 PVC Casing		-		n	o sample re	ecovery							
8, 7, 14					\$ \$ \$ \$			S	ILTY CLAY:	black, moist, very stiff, little very fine sands, slig	ht odor						
			- 8 - - 10			sc		C	CLAYEY SAND: olive, wet, loose, trace angular pebbles, slight odor								
4, 7, 9		Ш	12	2"		Ŧ		D	riller reporte	ed first appearance of water							
			-	PVC .020		_											
4, 8, 10			- 14	Slot													
			- 16					С	LAY: light b	rown, moist, stiff, littlesilt, slight odor							
			- 18			CL											
4, 8, 12			- - 20					s	ILTY CLAY:	mottled (tan with brown patches), moist, stiff, litt	tle organics						
, , –		1	- - 22	End C	ap			B	OREHOLE	TERMINATED AT 20'							
			- 24														
			- - 26														
			-														
			- 28 -		٠												
			- 30 -	1 mg	Portland	Çer	ment			Sample							
	- 32 Sand #3 Lonesta									Driven interval	;						
	- 34 Bentonite								=	Water level	:						

			ay be	e used to view	and complete				ıst be purchas	ed to compli	ete, save,	and reuse	e a saved	form.	
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			=		gic Log				1			Well	Owner	r	
	entation	⊙ Ve	ertica		rizontal	OAngle		fy	Name C	Conoco Phy	yllips/Liz	Sewell			
<u> </u>	Method		—		Dos	_ Drilling F scription	luid		Mailing /	Address <u>7</u>	6 Browdw	ıay			
	from Su			Desc	Des cribe material		, color, etc		City Sac	cramento			St	ate <u>CA</u>	
0	20		-	lled out we			••••						ocatio	n	
	\bot			urements to	a depth o	f 20 feet	below gr	ound	71	1096 Oa					
<u> </u>			sun	face.			 		1 1 ·						Contra Costa
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<u> </u>									-	- Mino	ve	101		ءَ کا ا	Describe procedures and materials under "GEOLOGIC LOG"
<u> </u>			-						-						Planned Uses
			_											OW	Vater Supply
						· · · · · · · · · · · · · · · · · · ·			 				to		Domestic Public
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	+-	\longrightarrow							-						est Well
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	-	\rightarrow	\vdash						rivers, etc. an Please be ac	escribe dislance d d attach a map. curate and com	Use additional plete.	paper if nece	essary.	00	ther
	-	$\overline{}$	$\overline{}$						Water L	evel and	Yield o	f Comp	oleted \	Well	
		\neg								first water				(Fee	et below surface)
									Depth to Water Le			(Feel	t) Date	Measu	ıred
Total D	epth of B	oring		20			Feet		Estimate	ed Yield *_		(GPN	/i) Test	Type_	
Total D	epth of C	omple!	ted \	well 20			Feet		Test Len	ngth		(Hou	rs) Tota	d Drawd	down(Feet)
<u> </u>	-r		<u> </u>				_ ' '		*May no	t be repres	entative o	of a well			
Denti	h from	Boreh	nle			ings	Wall	Outside	Screen	Slot Size	- Denth	n from	Annu	lar Ma	terial
Sur	face to Feet	Diame (Inche	eter	Type	Mate	rial .	Thickness	Diameter	Type	if Any	Surf	face	F	ill	Description
0		8.5		Blank	PVC Sch. 40	0	(Inches)	(inches)		(Inches)	Fee: w	to Feet	}		1
10	20	8.5		Screen	PVC Sch. 40			2		0.020	 				
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	Geologic	Attac	Hin	ents		the un	dersigned	1 certify the		certificati			the hes	of my	knowledge and belief
	Well Con		on D	iagram		Name <u>k</u>	Kirk Martin f	for Gregg Dr	illing & Testing	g g	C and ac	ouran n	uic ac) COLINY	Mitowieuge and penoi
□	Geophysi	ical Log	g(s)			950	Person, F	Firm or Corpora	ation	Martin	nez		C	CA	94553
		r Chen	nica	ıl Analyses	ļ	Signed	12/	Myss M			City	2/8/200	s	tate	Zip
	Other itional inform	nation, if i	it exis	ats.	——I		C-57 Lice	ensed Water W	/ell Contractor			Date Sig		485165 C-57 Lic	ense Number

ALTON GEOSCIENCE, Inc LOG OF EXPLORATORY BORING	PROJECT NO. 30-085 DATE DRILLED5/24/90 CLIENT Former Mobil Station 04-KP4 LOCATION Monument and Oak Grove, Concord, CA LOGGED BY W. Shipp APPROVED BY AW-6
FIELD SKETCH OF BORING LOCATION	
GROVE MONUMENT BLVD.	DRILLING METHOD CME 55, Hollow stem auger HOLE DIAM, 8.5*
RD. AW-6	SAMPLER TYPE Split Spoon
TOP OF CASING ELEVATION 45.17	CASING DATA 2" Sch. 40 PVC; 10' solid, 10' perf
	DRILLER Soils Exploration
BLOWS PER FOOT (in) CGI (ppm) SAMPLE DEPTH Construction USCS	WATER LEVEL: 12.83 feet below grade
BLOWS F FOOT (in CGI (ppm SAMPLE DEPTH Construct USCS PROFILE	DATE: 7/31/90
BLOWS PEF FOOT (in) CGI (ppm) SAMPLE DEPTH DEPTH Construction USCS	TIME: DESCRIPTION
- O Christy Box	
	Asphalt over road base
	silty CLAY: black, moist, firm
4,5,7 0 4 2" dia. Sch. 40 CL	
FF 6 PVC 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	silty CLAY: black, moist, stiff
casing 2 1	
2,5,7 0 10 2* dia.	sandy CLAY: olive, moist, stiff; little silts Driller reported first appearance of water
- 12 sch. 40	· · · · · · · · · · · · · · · · · · ·
14 0.020°	
4,6,8 0 slotting	silty CLAY: black, moist, stiff
	silty CLAY: mottled (tan and brown), moist, stiff; little very fine-grained sands and organics
4,7,13	BOREHOLE TERMINATED AT 20 FEET BELOW GRADE.
- 22 End Cap	DOTE TELIMINATED AT 20 FEET BELOW GRADE.
- 24	
· -	
- 26	
- 28	
- 30	
- 32	
- 34	•

*The free	Adobe Rea	ader ma	ay be	used to view	and complete	e this form.	However,	software mu	ust be purchase	ed to compl	ete, save,	and reuse	a saved	form.	Jan 1997 S
File Origi	jinal with D)WR					California		- 5	. [DW	/R Use O	nly – Do	Not Fill In
Page <u>1</u>		of .	1			W	ell Col	mpletic	on Repo	rt	L	Chat	1 1	<u></u>	
Owner's	Well Num	nber A	AW-7	,			No.	. e036006	GLENST CO	` I		State	e Well No	umber/Si	ite Number
				105						- 1		Latitude			Longitude
	ermit Agen lumber <u>05</u>	-		Costa Coun		<u>nental Hea</u> ate <u>8/16/</u> 0		on (CCCE)	<u>-1D) </u>	[APN.		her
	unico	<u> </u>			gic Log	10 <u>5/ . 5</u>			3			Well	Owner		
Ori	entation	⊙ ∨∈	ertica		rizontal	OAngle	Specify	iv	Niama C	Conoco Ph	vllins/l iz		Otriio.		
	Method					_ Drilling Fl			11 -	Address 7				-	
Depth Feet	from Sur			Desc		cription	solar eta			ramento	O DIVING.,	ay	St	ata CA	Zip 95818
0 Feet	20	eet	Dril	Desc lled out we	cribe material all accordin							Wall I	ocatio		
<u> </u>	+			urements to				ound	Address 1096 Oak Grove Road						
				face.			<u> </u>		City Concord County Contra Costa						
									11						
															imal Long
										APN Book <u>129</u> Page <u>170</u> Parcel <u>017</u>					
									Townshi	p <u>120-</u>				Secti	ion <u>017</u>
			<u> </u>						(Sketch r		ion Ske		rinted \	<u> </u>	Activity
<u> </u>			<u> </u>						(Onoic	muist be drawr	North	er ionn	ilinieu.,		lew Well lodification/Repair
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			<u> </u>						11 2.	A 1/_	1.0	٥/			Other
									>ee	Attac	wer	Map		ءَ 🕒 📗	Pestroy Describe procedures and materials Index "GEQLOGIC LOG"
 			 						41						Planned Uses
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	+-	\longrightarrow	\vdash				·		41						Domestic ☐ Public
	+-	\longrightarrow	\vdash						West				East		Irrigation Industrial
		$\overline{}$	 					· · · · · · · · · · · · · · · · · · ·	-						athodic Protection
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		\neg	\Box						11	evel and			leted \		
										first water				(Fee	et below surface)
									Depth to Water Le			(Feet	t) Date	Measu	ıred
Total D	epth of Bo	oring		20			Feet		-1 I	ed Yield *_			/I) Test		
Total D	epth of C	omple	eted V	Nell 20			 Feet		Test Length (Hours) Total Drawdown (Feet)						
,	————	511.p.					_ ' ' ' '		*May not	*May not be representative of a well's long term yield.					
Dont	h from	Boreh			Cas	ings	102-11	0.444		21 - 10 -		-	Annu	lar Ma	terial
Sur	rface	Diame	eter	Туре	Mate	rial 7	Wali Thickness	Outside Diameter	Screen Type	Slot Size if Any		n from face	Fi	ilt	Description
	to Feet	(Inche	es)	⊃!l.	F		(Inches)	(Inches)	- -	(Inches)		to Feet			,
10	10 20	8.5 8.5		Blank Screen	PVC Sch. 40 PVC Sch. 40	<u> </u> -		2		0.020			-		
10	20	0.5		Screen	FVC 5011. 1.	'		-		0.020	-				
			-		 						 				
			寸												
		Attac	hme	ents					C	ertificati	on State	ement			
Z (Geologic i		-			i, the unc	Jersigned	, certify the	at this report	is complet			the bes	t of my	knowledge and belief
¹	Well Cons	structio		agram	1	Name <u>K</u>	irk Martin f	for Gregg Dri	illing & Testing	3					<u></u>
_	Geophysi	,	•		1	1950	HO	We P	d	Martir				<u>:</u> A	1455 3
		r Chen	nicai	l Analyses	1	Signed	2	ddress	1/2/		City	2/8/2006		tate 185165	Zip
Other Signed C-57 Licensed Water West C									el-Contractor			Date Sign			ense Number

ALTON GEOSCIENCE, Inc. LOG OF EXPLORATORY BORING									CLIEN'	T MOBIL OIL CORPORATION TION MONUMENT AND OAK GROVE, CONCORD WELL N	BORING NO. WELL NO. AW-7					
(FIELD SKETCH OF BORING LOCATION OAK GROVE RD. AW-7 TOP OF CASING ELEVATION 45.85'									DRILLING METHODCME_55, HSAHOLE DIAM8.5* SAMPLER TYPESPLIT SPOON CASING DATA _ 2* Sch. 40 PVC; 10' solid, 10' perf DRILLERSOILS EXPLORATION						
BLOWS PER	FOOT(N)	CGI (PPM)	SAMPLE	EF 4EG	WELL CONSTRUCTION	OR BORING CLOGURE	UGCS PROFILE		TE: 7/31	EL: 12.50 FEET BELOW GRADE /90 DESCRIPTION						
				- 0	Christy	Вох					 -					
4,	5, 9	0		-2 -4 -6	4° sch. 40 PV0 Casing		CL			r road base ': black, moist, stiff						
4,	4, 5	0		- - 10 - - 12	2" sch. 40 PVC		M	Dri SA	iller report NDY SILT	ed first appearance of water Tolive, wet, firm, little clay	-14 -1					
3, 4	5, 8	0	I	- 14 - 16 - 18	.020 Slot		CL			: brown, moist, stiff, little very fine sands						
5, 9), 13		┰╏	20				Stiff	, little ven	: mottled (light brown with gray and green patches), moist	t,					
				24	End (Cap		ВС	DREHOLE	TERMINATED AT 20.						
				30	***	Portland Sand #3				Sample Driven interval						
			<u>_</u>	34	38	Bentonite			<u> </u>	Water level						

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*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** of 1 Refer to Instruction Pamphlet No. e036003 State Well Number/Site Number Owner's Well Number AW-8 W N Date Work Began 10/31/2005 Date Work Ended 10/31/2005 Local Permit Agency Contra Costa County Environmental Health Division (CCCEHD) APN/TRS/Other Permit Number 05M-1777 Permit Date _10/28/05 Geologic Log Well Owner O Horizontal O Angle Specify Name Conoco Phyllips/Liz Sewell **Drilling Method Drilling Fluid** Mailing Address 76 Browdway Depth from Surface Description City Sacramento State CA Zip <u>9581</u>8 Describe material, grain size, color, etc Feet to Feet 20 0 Pressure grouted well according to CCCEHD Well Location requrements following approval of a variance Address 1096 Oak Grove Road request. County Contra Costa City Concord N Longitude ______ Latitude Deq. Min. Sec. Datum_ Decimal Lat. Decimal Long. APN Book 129 Page 170 Parcel __*ට*ට් Township 120 __ Range <u>170</u> Section 021 Activity Location Sketch (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen Other See Attachel Hap O Destroy
Describe procedures and materials under "GEOLOGIC LOG" Planned Uses O Water Supply ☐Domestic ☐Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well South O Vapor Extraction Bustrate or describe distance of well from reads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. O Other Water Level and Yield of Completed Well Depth to first water (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring 20 Estimated Yield * Feet (GPM) Test Type Test Length __ (Hours) Total Drawdown (Feet) Total Depth of Completed Well 20 Feet *May not be representative of a well's long term yield. Casings Annular Material Depth from Borehole Wall Outside Screen Slot Size Depth from Type Material Surface Feet to Feet Diameter Thickness Diameter if Any Surface Fill Description (Inches) (Inches) (Inches) (Inches) Feet to Feet 10 8.5 Blank PVC Sch. 40 10 20 Screen PVC Sch. 40 0.020 Attachments Certification Statement ☑ Geologic Log I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name Kirk Martin for Gregg Drilling & Testing ☑ Well Construction Diagram Person, Firm or Corporation ☐ Geophysical Log(s) Madinez ☐ Soil/Water Chemical Analyses City State ☐ Other . 2/8/2006 485165 ach additional information, if it exists. Date Signed C-57 License Number

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	LC)F			NCE, Ir ATORY	ic.		CLIEN	ECT NO30-085 DATE DRILLED 5/24/90 ITMOBIL OIL CORPORATION THON _MONUMENT AND OAK GROVE, CONCORD	BORING NO.						
-									- LOGG	ED BY W. SHIPP APPROVED BY	8-WA						
_			(ET(CH O	F BORII	VG LOCAT											
	OAK GRO'		ļ	Φ ^\			MO BL\	NUME! /D.	01.1122	NG METHOD <u>CME 55, HSA</u> HOLE DIAM	И. <u>8.5*</u>						
	RD.		=	1:	8	- Y _			l.	SAMPLER TYPE SPLIT SPOON							
	TOP OF CASING ELEVATION 45.71									CASING DATA 2" Sch. 40 PVC; 10' solid, 10' perf DRILLER SOILS EXPLORATION							
_		_				_	<u> </u>		Divicu	- SOILS EXPLORATION							
ű	_	5		_		<u> </u>		۔ ا		EL: 12.68 FEET BELOW GRADE							
BLOWS PER	FOOT(N)	CGI (PPM)	SAMPLE	DE P.T.	je	CAE	4	MOFILE		1/90							
PLC.	Š	100	SAN	~	MALL	OF BORING CLOSURE	529n	[& -	TIME:	DESCRIPTION							
T				- 0	Christy	Вох											
		1		}				////	Brick and as	sphalt over road base							
				2					SILTY CLA	Y: black, some very fine sands							
3,	7, 10	0	T	4	2" sch. 40 PV0 Casing			SILTY CLAY	Y: black, firm, some very fine sands								
				-6 -8	, vaa9	135 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS			SILTY CLAY	ILTY CLAY: black, moist, firm, some very fine sands							
4,	5, 8	0		- 10	2-		<u> </u>		Driller repor	iller reported first appearance of water							
				- 12	sch. 40 PVC 020		мL		SILTY SAND	SILTY SAND: olive, wet, little clay							
				14													
4,	5, 6	0		- 14 - 16	Slot				SILTY CLAY	TY CLAY: mottled (brown with tanpatches), stiff							
				- 18			CL	SIL sa	SILTY CLAY	LTY CLAY: mottled (brown with red-brownpatches), stiff, moist, little							
5, ·	14 1			•					sands and o	nds and organics							
14	1,		Ш	- 20			<i></i>			DREHOLE TERMINATED AT 20."							
				- 22	End (Сар		i	BOREHOLE								
				- 24													
				- 26													
				- 28		•											
				30		Portland	Com	ant.									
			1	•	(प्रत्यक्ता					Sample							
	32 Sand #3 Lonestar							estar	Ш	Driven interval							
	Bentonite									Water level							

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